

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Basic Imagery Interpretation Report Top Secret

25X1

BALAKLAVA MISSILE TEST CENTER MAY 1977--MAY 1978 (S)

MISSILE RANGES: NAVAL LAUNCHED FACILITIES
USSR
SEPTEMBER 1978

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Top Secret

RCA-17/0005/78

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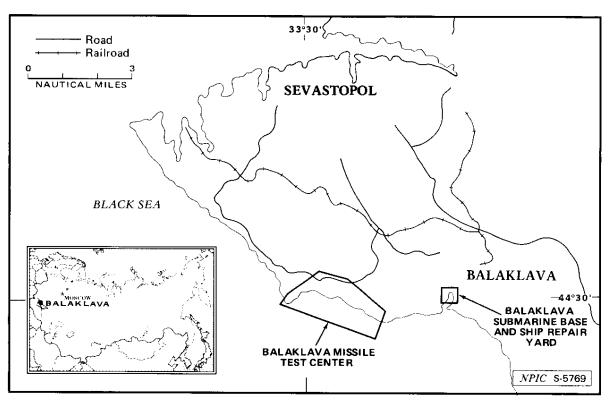
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INSTALLATION OR ACTIV	/ITY NAME		COUNTRY
Balaklava Missi	ile Test Center, May 1977	May 1978	UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY BE NO.	COMIREX NO. NIETB NO.
NA	44-30-14N 033-31-22E		
MAP REFERENCE			
2d RTS. USATO	C, Series 200, Sheet 0250-25	5, scale 1:200,000	
LATEST IMAGERY USED		NEGATION DATE (If requ	ired)
		NA	
			
	A	ABSTRACT	
	R) This report describes SR, from May 1977 to May		
tions for pop	oup testing of a new submar of a new popup barge at the	arine-launched ballistic e Balaklava Submarine l	orting period were prepara- missile (SLBM), including Base and Ship Repair Yard
in the position	on and number of bouys in	-	nissile variant; and change
•	This report includes four p	•	on map.
	DAGIC	PESCEIDTION	
	BASIC	DESCRIPTION	
ity; a test ed former SAM Site CM Ta pellant serv	quipment support area, Ba ILET research and develop actical Short Range	alaklava Submarine Bas ment launch area, Bala a missile h e area; a base support	ubmerged launch test facil- se and Ship Repair Yard; a klava Coastal Defense Test andling area; a liquid pro- area; and instrumentation
New SLBN	M System		
a new SLBN		tested at Balaklava M	nent provided evidence that TC. Analysis also indicates meter of approximately
missile hand		orter was seen at the fac	cransporter was seen in the cility in October 1977). The prime mover, is
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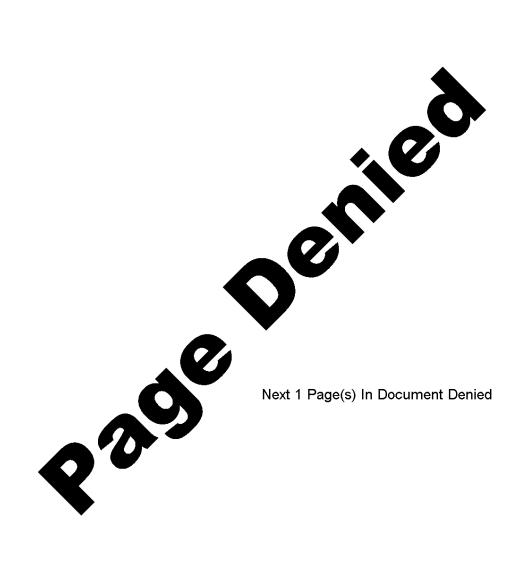
long and is comparable in length to the SS-N-18 transporter. However, analysis of the wheelbase and fender location and the absence of an auxiliary box behind the prime mover indicated that the new transporter does not have the same chassis as the SS-N-18 transporter, but it is on the style of a flatbed trailer.2 The trailer portion was 25X1 long and when seen on imagery of it had handling cradles with an 25X1 inner diameter of 7. (TSR) Accompanying the transporter was a flatbed truck with an unidentified canvas-covered object (Figure 2). The object was approximately 25X1 could have been a launch-assist device for the missile to be tested from the popup barge. 8. (TSR) Probable missile handling rings were seen near the new transporters on several occasions and on a dock at the submarine base where the popup barges are moored. The rings ranged in size from in outside diameter and 25X1 when measurable had inside diameters of the same size as the inner diameter 25X1 of the cradles on the transporter. 9. (TSR) On a new SLBM popup barge (Figure 4), built at Nikola-25X1 yev Shipyard Nosenko 444 arrived at the submarine base. The barge 25X1



was probably constructed to simulate a section of the missile bay of a fleet ballistic missile submarine, nuclear propelled (SSBN). It had two outer doors similar in shape

FIGURE 1. LOCATION OF BALAKLAVA MISSILE TEST CENTER, USSR

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	and location to those seen on the missile bay of the Delta-class SSBN. The doors were at least and possibly long and wide, longer and wider than the outer doors of the Delta-class SSBN. When two possible frames
	for the missile tube doors were seen at Nikolayev, both haddiameter inner framing support sections.
	10. (TSR) Considering the length of the trailer chassis, the dimensions of the cradles on the trailer, the diameter of the missile handling rings, and the size of the missile tube doors of the new popup barge, it is reasonable to assume that the new SLBM will have a diameter of and a maximum length of
	Possible Firing Platform for STYX Variant
	Analysis of imagery over these periods
	revealed a vehicle that could function as a possible firing platform for the system. The
	vehicle, a possible canister transporter/launcher (Figure 5), was seen on imagery of in the missile handling area. It had an overall length of with a
	canister/launch tube. A vehicle of similar dimensions was also seen at that position on
	that position on

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12. (TSR) The possible canister transporter/launcher is similar in appearance to the canister-type transporter/launchers seen at Kapustin Yar Cruise Missile Test Complex D, Marciena Missile Support Facility, and Pruzhany Army Barracks, The vehicles at these facilities were reported as possible remote-piloted vehicle/drone related. The vehicle at Balaklava differs from the others in that it is 1 meter shorter and lacks end caps, but the canister portion is dimensionally compatible with the STYX missile.	25X1 25X1
13. (TSR) The site previously used in the testing of land-based cruise missile systems at Balaklava is apparently inactive since it is overgrown with vegetation, and no missile-related activity has been seen there since before the STYX missile firings began. ⁵	
Popup Test Area	•
14. (TSR) In July 1977 the number of stabilization buoys at the Balaklava MTC offshore popup area increased from four to eight, signifying that two popup test programs were possibly being planned. (The last time eight buoys were seen in the test area was between 1968 and 1971, when the SS-N-8 and another missile, possibly the SS-N-9, were believed to be undergoing simultaneous popup testing.) Four of the eight buoys were probably related to the new SLBM popup barge (platform 8) which arrived at the submarine base in August 1977. The other four buoys are probably related to either the cruise missile barge or the twin-tube popup barge.	
Changes Within the Missile Storage Area	
15. (TSR) The only change within the area has been the reduction of SS-N-2 crates from 20 on	25X1
Construction Activity	
16. (TSR) The most significant physical change to the facility has been the increased security around the missile handling area and instrumentation site 2. Both areas are now double-fence secured.	

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	REFERENCES
IMAGERY	
(TSR) All in	sterpretable KEYHOLE imagery from October 1976
MAPS OR CHA	was used in the preparation of this report. RTS
2nd RTS. US	S Air Target Chart, Series 200, Sheet 0250-25, scale 1:200,000 (UNCLASSIFIED)
DOCUMENTS	
1. NPIC. 77 (TOP S	RCA-17/0002/77, Balaklava Missile Test Center, January 1976May 1977, Jul
2. NPIC. USSR (S)	SR-054/77, Possible New Missile Transporter at Balaklava Missile Test Center, Aug 77 (TOP SECRET
3. NPIC. SECRET	SR-007/78, Estimated Dimensions of New Soviet SLBM (TSR), Jan 78 (TOP
	0/8852/77, TAG FAER RU, SS-N-2C/STYX Missile Displays Sea-Skimming Cruise Capabil- 7 (TOP SECRET
5. NPIC. the USSR	SR-037/78, Possible Firing Platform for the SS-N-2C (STYX Variant) Missile in (TSRZ), Apr 78 (TOP SECRET
6. NPIC. SECRET	SR-050/77, Deployment of a Possible New RPV/Drone in USSR (S), Jul 77 (TOP
7. NPIC Jun 78 (T	SR-045/78, Popup Test Activity at Balaklava Missile Test Center, USSR (TSR), OP SECRET
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List of Conversion Factors by Classification

U	NITS OF LEN	GTH	UNITS OF MASS		
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS
YARDS	0.9144	METERS			
METERS	3.2808	FEET			
METERS	0.0005	MILES(NAUTICAL)			
METERS	1.0936	YARDS	L	INITS OF VOL	UME
KILOMETERS	3280.8400	FEET			
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	BARRELS(POL)
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0010	CUBIC METERS
MILES(NAUTICAL)	1.8520	KILOMETERS	GALLONS	3.7854	LITERS
MILES(NAUTICAL)	1852.0000	METERS	GALLONS	0.1337	CUBIC FEET
			GALLONS	0.0238	BARRELS(POL)
			GALLONS	0.0038	CUBIC METERS
			BUSHELS	0.0352	CUBIC METERS
ι	UNITS OF AREA			7.4805	GALLONS
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)
SQUARE CENTIMETERS	0.1550	SQUARE INCHES	CUBIC FEET	0.0283	CUBIC METERS
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET
ACRES	4046.8564	SQUARE METERS	CUBIC METERS	28.3776	BUSHELS
ACRES	0.4047	HECTARES	CUBIC METERS	6.2898	BARRELS(POL)
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS
		10050			

2.4711

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HECTARES

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